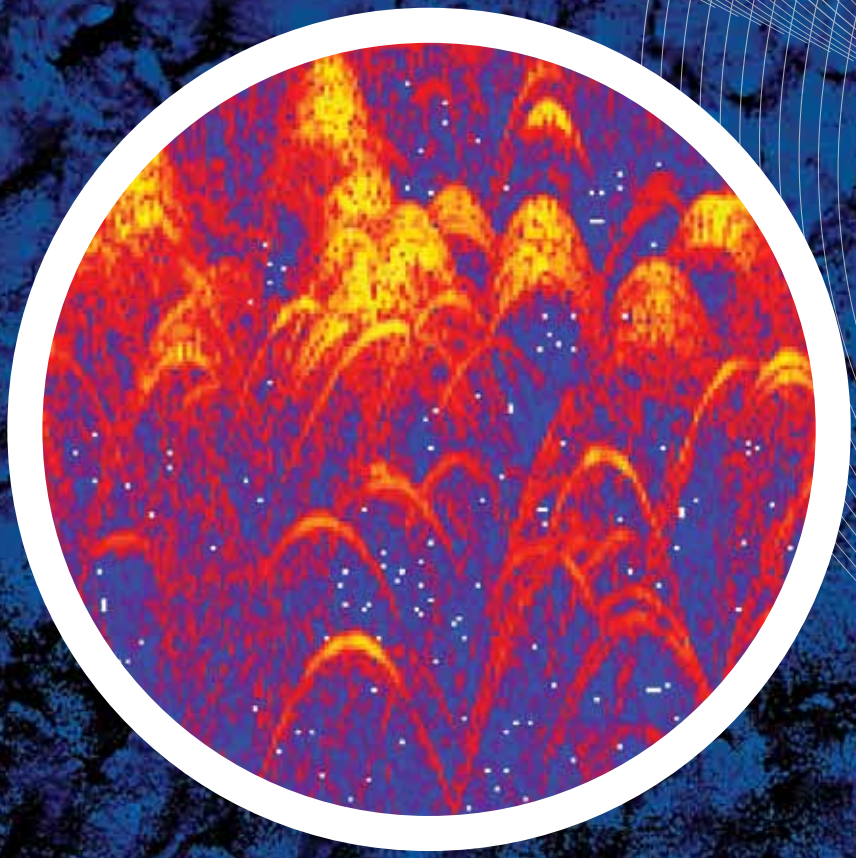
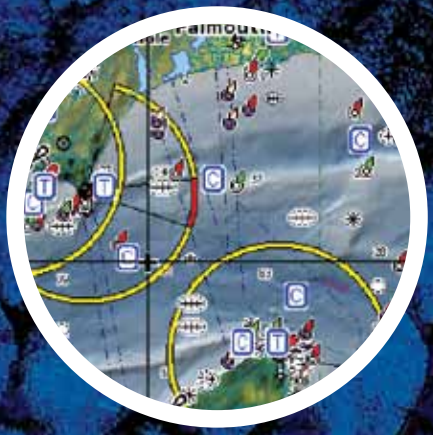
Lowrance 2010
HDS Marine Products





LOWRANCE®

www.lowrance.com

A Navico brand – Leader in Marine Electronics

Fishfinder/GPS Chartplotter

HDS® High Definition System

Award-winning brilliance in display, form and function.

Displays showing optional StructureScan™ sonar imaging expansion option.

"Rarely does a product hit the market that changes the way I fish. Built-in Broadband Sounder sonar and incredible mapping capabilities make it the best all-in-one unit I have ever used."
-- Capt. Tom Rowland,
Co-host *Saltwater Experience TV*

HDS-10 Multifunction Fishfinder/GPS Chartplotter

Massive, high-definition 10.4 in./26.4 cm, 600V x 800H pixel Super VGA color detail. Brighter SolarMAX™ PLUS display for superior sunlight and wider-angle viewing. Pure-white LED screen/keypad backlighting fully adjusts to zero-dim for night viewing. Two-year limited warranty.

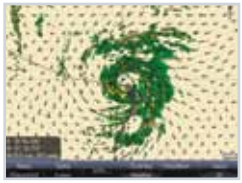
ICAST 2009 New Product Showcase WINNER

HDS-8 Multifunction Fishfinder/GPS Chartplotter

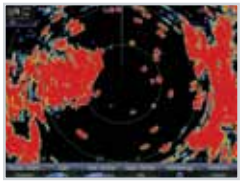
All the same high-definition, Super VGA color clarity viewing of the HDS-10 in an award-winning, 8 in./20.3 cm display package size. Two-year limited warranty.

HDS Performance Expansion Options

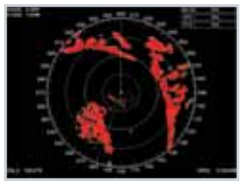
StructureScan™ sonar imaging Picture-perfect fishfinder imaging detail with true panoramic viewing – left, right and straight down – with plug-and-play ethernet networking. Pages 8, 10-11



LWX-1 SIRIUS® weather/radio antenna – A plug-and-play smart antenna network module for real-time, high-resolution NOWRad® satellite weather, plus digital stereo radio, with inland and coastal SIRIUS® subscription choices. Pages 8, 12-13



Broadband Radar™ – The latest, greatest advancement in radar for tune-free, close-in, high-detail navigation without harmful radiation. A radome that is easy and safe to mount anywhere, with ethernet networking connectivity. Pages 8, 14-15



HD Digital Radar – Advanced, high-definition radomes with digital signal processing for superb accuracy and target detection even in dark and foul weather. Dependable compact high-performance that networks with ethernet. Pages 8, 16

Switch to HDS® and Get the Big Picture
HDS-10 and HDS-8: Award-winning and wildly popular among serious anglers for stunning detail and performance. Larger, brighter high-definition color displays deliver maximized viewing even in the tightest spaces. What you see is phenomenal. How you see it comes from the finest Lowrance fishfinder and GPS chartplotter innovations for finding fish and precisely finding your way. Technology so advanced, it's easy to operate, and even easier to expand with a host of multifunction performance options. Incredible capabilities and performance at a modest price puts HDS-10 and HDS-8 in a league of their own.

Model	Part
HDS-10	
Insight USA™ with 83/200 kHz Skimmer® transducer	000-0140-13
Insight USA™ with 50/200 kHz Skimmer® transducer	000-0140-02
Insight USA™ no transducer	000-0140-41
U.S. Basemap with 83/200 kHz Skimmer® transducer	000-0140-00
HDS-8	
Insight USA™ with 83/200 kHz Skimmer® transducer	000-0140-07
Insight USA™ with 50/200 kHz Skimmer® transducer	000-0140-06
Insight USA™ no transducer	000-0140-39
U.S. Basemap with 83/200 kHz Skimmer® transducer	000-0140-09

Standard HDS® Features Set a Higher Standard.

Award-winning Broadband Sounder™
Advanced, enhanced DSP sonar technology displays peerless, high-detail sonar target returns in cover, thermoclines, wrecks or structure, and all water conditions, to depths of 3,000 ft. and more, even at high speeds.

Internal 16-channel GPS antenna
Newest high-sensitivity technology of the built-in 16-channel GPS antenna delivers spot-on WAAS+EGNOS+MSAS accuracy for HDS navigation, and feeds GPS data to other displays when connected to any onboard NMEA 2000® network.

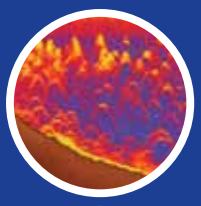
Insight USA™ High-Definition Mapping
Exclusive inland and coastal mapping renders a whole new viewing dimension to GPS reference and guidance. Amazing contour shading lends a life-like presentation to bottom structure and topography. Includes Fishing Hot Spots® detail and fast screen updates.

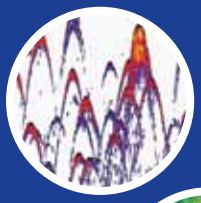
Stunning SolarMAX™ Viewing
Exclusive SolarMAX™ PLUS color display offers the best viewing possible in the brightest sunlight, and at the widest angles, of any marine electronics. Super-white LED backlighting is adjustable to zero-dim for night vision protection.

Better and Faster Display Control
Unique FlyWheel™ scroll dial and display-dedicated soft command keys give the fastest and easiest access to functions adjustment and control. Special, intuitive graphic + text user interface displays are easy to grasp and speed access and control of feature functions selection.

SD Memory Card Conveniences
The Lowrance innovation of bringing a waterproof media card port to marine electronics is further refined with HDS, with two slots to load new Insight HD and all Navionics® map options for display, record/save vital data, and to upload future HDS software features updates downloaded free from the Lowrance website.

Out-of-the-Box Networking
HDS features full plug-and-play connectivity for multifunction networking performance expansion options. With high-speed ethernet for the new StructureScan™ sonar imaging system, SIRIUS® satellite weather and radio, and Broadband Radar™ or HD radar options. Plus, NMEA 2000® for the LGC-4000 5 Hz GPS antenna, and a wide array of gauges and sensors to optimize boat operation and fuel economies.





High-Accuracy GPS Antenna – Enhanced and incredible accuracy in a 5 Hz 16-channel external GPS antenna for a true WAAS+EGNOS+MSAS position update rate of five (5) times every second when connected to HDS. Networks with NMEA 2000®. Pages 8, 18

New Insight HD and Navionics® Mapping – Multiple, high-detail map and chart card option for precision HDS navigation reference – from the all-new, expansive Insight HD selections to Navionics® choices. Pages 22-25

Boat Systems & Fuel Management – From Lowrance innovation comes the most comprehensive selection of NMEA 2000® network gauges and sensors for improved onboard systems management and fuel economies. Pages 8, 18-19

VHF Communications – Remarkable quality, features, dependability and value in a choice of fixed-mount and handheld VHF marine communications. Pages 8, 20-21

Fishfinder/GPS Chartplotter

HDS® High Definition System

Award-winning brilliance in display, form and function.

Display showing built-in Insight USA™ charting.

"The Lowrance HDS units have set a new standard for fishing electronics. These units have the most advanced sonar capabilities that I've ever seen for fishing! An anglers's only choice is going to be what size to buy for his/her needs!"
-- Gary Parsons,
Professional walleye champion and co-host *The Next Bite TV.*

HDS-7 Multifunction Fishfinder/ GPS Chartplotter

Excellent viewing detail in a large 6.4 in/16.3 cm, 480V x 640H pixel Full VGA color display format. Brighter SolarMAX™ PLUS display for superior sunlight and wider-angle viewing. Pure-white LED screen/keypad backlighting fully adjusts to zero-dim for night viewing. Two-year limited warranty.

HDS-7m Multifunction GPS Chartplotter

HDS-5 Multifunction Fishfinder/ GPS Chartplotter

Big-color definition in a popular space-saving size, with an exclusive high-resolution 5 in./12.7 cm 16-bit color SolarMAX™ PLUS display with adjustable screen and keypad backlighting.

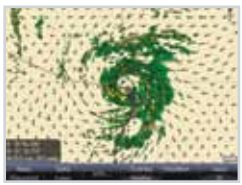
HDS-5 with StructureScan™ Sonar Imaging

The HDS-5 packaged with the exciting new StructureScan™ imaging system.

HDS-5m Multifunction GPS Chartplotter

HDS Performance Expansion Options

StructureScan™ sonar imaging Picture-perfect fishfinder imaging detail with true panoramic viewing – left, right and straight down – with plug-and-play ethernet networking. Pages 8, 10-11



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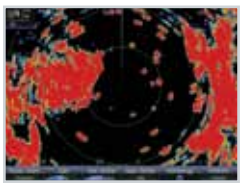

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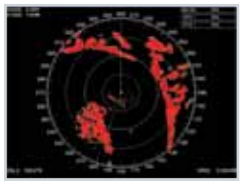

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Potent HDS® Performance In Space-Saving Sizes.
HDS-7 and HDS-5: Stunning high-definition color detail. Powerful built-in Broadband Sounder™ sonar and precision 16-channel GPS receiver. Full compatibility with new Insight HD and Navionics® charting options. Plus, fantastic networking versatility with performance-enhancing multifunction expansion options. Pure HDS through and through, consolidated in right-sized solutions for success-driven anglers and boaters. The perfect choices where onboard space is a factor, and there's absolutely no room for anything less than the best-performing electronics.

Model	Part
HDS-7	
Insight USA™ with 83/200 kHz Skimmer® transducer	000-0140-12
Insight USA™ with 50/200 kHz Skimmer® transducer	000-0140-14
Insight USA™ no transducer	000-0140-36
U.S. Basemap with 83/200 kHz Skimmer® transducer	000-0140-05
U.S. Basemap no transducer	000-0140-34
HDS-7m	
Chartplotter with Insight USA™ and sonar viewing/control via ethernet network	000-0140-16
HDS-5	
Lake Insight™ with 83/200 kHz Skimmer® transducer	000-0140-19
Lake Insight™ no transducer	000-0140-30
Nautic Insight™ with 50/200 kHz Skimmer® transducer	000-0140-20
U.S. Basemap with 83/200 kHz Skimmer® transducer	000-0140-21
U.S. Basemap without transducer	000-0140-32
HDS-5I-BNDL	
HDS-5 Lake Insight™ with LSS-1 StructureScan™ imaging system and 83/200 kHz Skimmer® transducer	000-00099-001
HDS-5m	
Chartplotter with Nautic Insight™ and sonar viewing/control via ethernet network	000-0140-23

Standard HDS® Features Set a Higher Standard.

Award-winning Broadband Sounder™
Advanced, enhanced DSP sonar technology displays peerless, high-detail sonar target returns in cover, thermoclines, wrecks or structure, and all water conditions, to depths of 3,000 ft. and more, even at high speeds.

Internal 16-channel GPS antenna
Newest high-sensitivity technology of the built-in 16-channel GPS antenna delivers spot-on WAAS+EGNOS+MSAS accuracy for HDS navigation, and feeds GPS data to other displays when connected to any onboard NMEA 2000® network.

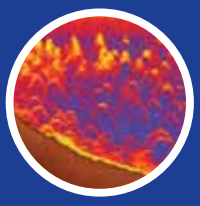
Insight USA™ High-Definition Mapping
Exclusive inland and coastal mapping renders a whole new viewing dimension to GPS reference and guidance. Amazing contour shading lends a life-like presentation to bottom structure and topography. Includes Fishing Hot Spots® detail and fast screen updates.

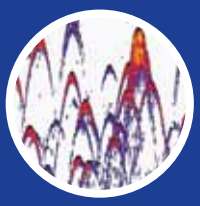
Stunning SolarMAX™ Viewing
Exclusive SolarMAX™ PLUS color display offers the best viewing possible in the brightest sunlight, and at the widest angles, of any marine electronics.

Smoother Functions Selection
Unique, intuitive graphic + text user interface displays are easy to grasp and speed access and control of feature functions selection.

SD Memory Card Conveniences
The Lowrance innovation of bringing a waterproof media card port to marine electronics is further refined with HDS, with one slot to load new Insight HD and all Navionics® map options for display, record/save vital data, and to upload future HDS software features updates downloaded free from the Lowrance website.

Out-of-the-Box Networking
HDS features full plug-and-play connectivity for multifunction networking performance expansion options. With high-speed ethernet for the new StructureScan™ sonar imaging system, SIRIUS® satellite weather and radio, and Broadband Radar™ or HD radar options. Plus, NMEA 2000® for the LGC-4000 5 Hz GPS antenna, and a wide array of gauges and sensors to optimize boat operation and fuel economies.





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VHF Communications – Remarkable quality, features, dependability and value in a choice of fixed-mount and handheld VHF marine communications. Pages 8, 20-21

Fishfinder

HDS® High Definition System

Award-winning brilliance in display, form and function.

HDS-5x Multifunction Fishfinder

Big-color definition in a popular space-saving size, with an exclusive high-resolution 5 in./12.7 cm 16-bit color SolarMAX™ PLUS display with adjustable screen and keypad backlighting. Two year limited warranty.

HDS Performance Expansion Options

Transducers – Versatile, super-sensitive choices for superior sonar performance, from inland and in-shore to high-power offshore selections. Pages 26-27

StructureScan™ sonar imaging Picture-perfect fishfinder imaging detail with true panoramic viewing – left, right and straight down – with plug-and-play ethernet networking. Pages 8, 10-11

Boat Systems & Fuel Management From Lowrance innovation comes the most comprehensive selection of NMEA 2000® network gauges and sensors for improved onboard systems management and fuel economies. Pages 8, 18-19

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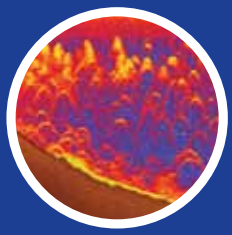
Legendary Lowrance Spot-On Fish-Finding. HDS Strengths.
HDS-5x: Renowned for a long history of tournament-winning success, the celebrated Lowrance X-series still lives in this advancement in sonar designed for uncompromising anglers. Along with 50/83/200 kHz transducer capability, the exclusive built-in Broadband Sounder™ provides an exclusive edge in finding more fish, with higher definition and greater viewing clarity, and the best separation of fish from cover ever achieved by Lowrance, let alone anyone else. Plus, since it is HDS, it is a multifunction networking wonder for performance expansion to work in your favor.

Model	Part
HDS-5x	
With 83/200 kHz transom-mount Skimmer® transducer	000-0140-27
With 50/200 kHz transom-mount Skimmer® transducer	000-0140-28
No transducer	000-0140-29

Standard HDS® Features Set a Higher Standard.



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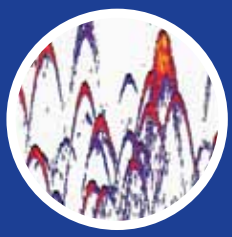
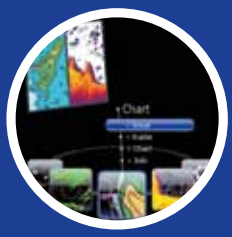


Stunning SolarMAX™ Viewing
Exclusive SolarMAX™ PLUS color display offers the best viewing possible in the brightest sunlight, and at the widest angles, of any marine electronics. Adjustable screen and keypad backlighting with optimized night mode view selection.



Smoother Functions Selection
Unique, intuitive graphic + text user interface displays are easy to grasp and speed access and control of feature functions selection.

Out-of-the-Box Networking
HDS features full plug-and-play connectivity for multifunction networking performance expansions – with high-speed ethernet for the new StructureScan™ sonar imaging system, and NMEA 2000® for a wide array of gauges and sensors to optimize boat operation and fuel economies.

"I'm totally sold on Lowrance's new HDS units for several reasons. I can fully attest that the HDS models that I use provide me superior fish finding in all cover – even for fish hiding in surface clutter – and that's really important. Simply put, it makes these units find more targets with more sensitivity and clarity. The fish just can't hide from them!"
-- Bill Dance,
Host *Bill Dance Outdoors TV.*

Performance Expansion Networking

HDS® High Definition System

Multifunctional, Multi-Dimensional Network Options Expand Your HDS Capabilities.

If precise, accurate information is power, you've never had it better. Lowrance HDS gives you complete onboard networking capability, expandability and control. Connect with high-speed ethernet for radar, SIRIUS® weather or StructureScan™ sonar imaging sharing. Plus, network with affordable NMEA 2000® data sharing to monitor boat system operations, such as fuel management.

HDS networking gives you a virtual endless array of configurable networking solutions to enhance your time on the water. Including, the option to expand your system as new Lowrance performance innovations present themselves in the future.

Lowrance HDS Simplifies Plug-and-Play Performance Network Expansions. Just Connect the Dots.

Additional HDS Display(s)

LSS-1 StructureScan™ Sonar Imaging for Bow Trolling Motor

LSS-1 StructureScan™ Sonar Imaging System

BR24 Broadband Radar

4kW/2kW HD Digital Radar

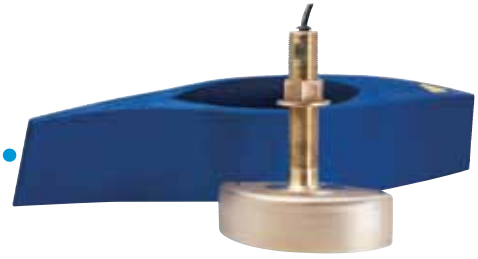
FC 40/FC42 Heading Sensor (Radar/Chart Overlay)

Key:

E Ethernet

N NMEA 2000®

HDS Multifunction Fishfinder/ Chartplotter Display



Multiple Transducer Options

LWX-1 SIRIUS® Satellite Weather/Radio Antenna

NMEA 2000® System Data Display Gauges

LGC-4000 High-Accuracy 5Hz GPS Antenna

LVR-880 VHF+FM DSC Marine Radio

NMEA 2000® Fuel Management/Boat Monitoring Smart Sensors

NMEA 2000® Outboard Engine Data Interface Sensors

HDS® Ethernet Expansion

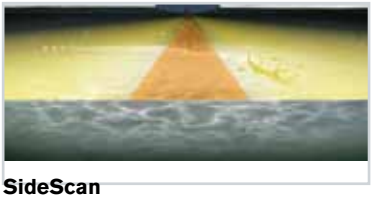
NEW StructureScan™ Sonar Imaging for HDS

Sees More. Shows More. Does Much More.
Clearly Reveals Structure & Fish Targets as Never Before.

It's the most incredible Lowrance fish-finding technology ever. The StructureScan™ sonar imaging system option for HDS. Enjoy the highest level of structure- and fish-finding clarity, with the first and only true, panoramic underwater imaging with phenomenal picture-perfect display detail…to the left, right, and exclusively, straight down coverage below your boat! So you get a complete, bigger and better underwater picture for finding success with added features. It's a giant leap above and beyond what a side imaging-only sonar can ever achieve.

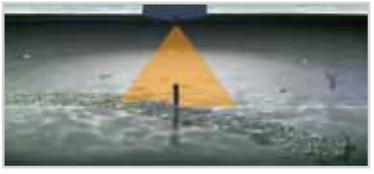
Unique Features Working Together Set StructureScan™ Imaging Apart.

1. **SideScan Imaging** – Crisp side-viewing detail, up to 500 ft./152 m port to starboard, allows scanning more water in less time for productive locations. Reveals targets and their scan shadows – structure, game fish and baitfish alike.



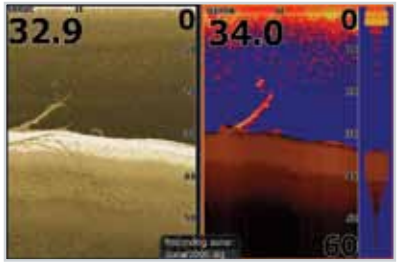
SideScan
Depth range: to 150 ft./46 m
Bottom tracking: up to 35 mph/56 kph
Mark baitfish-large objects: up to 15 mph/24 kph
Optimum imaging: 0.5-10 mph/0.8-16 kph

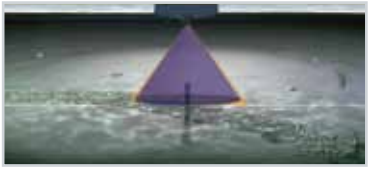
2. **DownScan Imaging™** – The Lowrance innovation of dedicated sounding focused vertically beneath your boat removes all guesswork in structure identification. Superior thermocline detection as well.



DownScan Imaging™
Depth range: to 300 ft./92 m
Bottom tracking: up to 55mph/88 kph
Mark baitfish-large objects: up to 35 mph/56 kph
Optimum imaging: 0.5-10 mph/0.8-16 kph

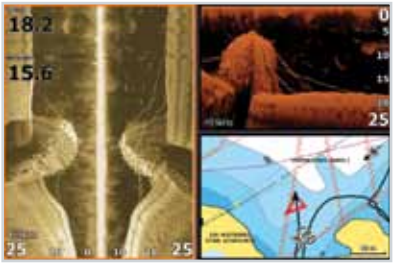
3. **Broadband Sounder™** – Advanced, award-winning HDS digital sonar technology unites with StructureScan soundings for an all-new, combined view of structure and fish detail that's easier to interpret.



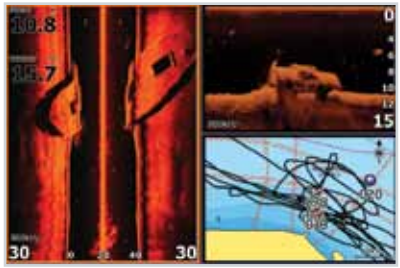


Broadband Sounder™ with DownScan Imaging™ Coverage.

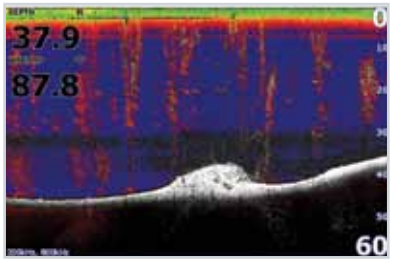
4. **Detailed Navigation Guidance** – HDS with built-in Insight or any high-detail mapping option, plus StructureScan imaging presents the best total on-the-water picture to enhance discovery success, above and below the surface.



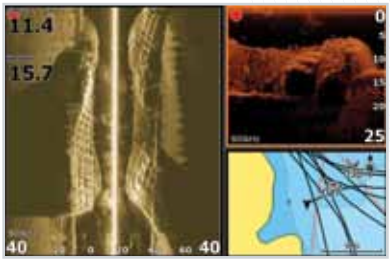
5. **Pick Your Color** – Select from a wide array of HDS and StructureScan display color choices for the best viewing for water conditions and personal preference.



Exclusive StructureScan™ Imaging Innovations Work in Your Favor.

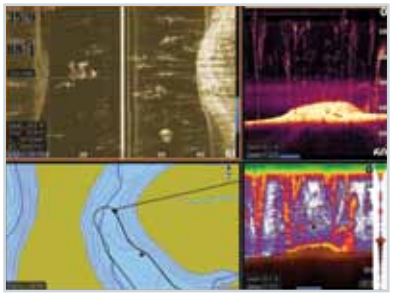


Incredible DownScan Overlay™ Advantage
Exclusive new technology overlays DownScan Imaging™ onto Broadband Sounder™ sonar display for one stunning view that separates and clearly exposes fish targets from surrounding structure. Overlay transparency and color palettes fully adjustable.



Synchronized TrackBack™ Tool
Simultaneous scroll-back in all imaging, sonar and chartplotter history displays is a time- and fuel-saving way to revisit covered water and easily set waypoints. When networked with other HDS displays, waypoints set are automatically posted to all display units.

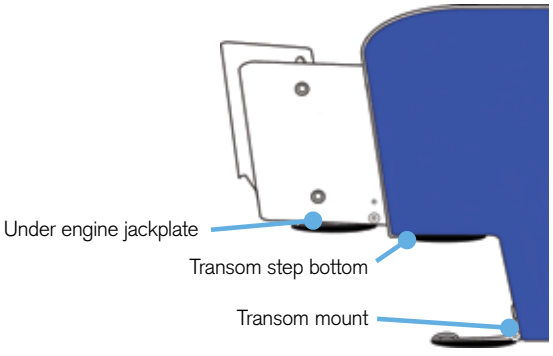
True-to-Life Down Imaging
With the DownScan Imaging™ innovation, only StructureScan™ employs a third, separate transducer element dedicated solely to precision down imaging for a true picture. More advanced than just software manipulation of a two-crystal transducer for a "virtual" down-scan view, what DownScan Imaging™ technology reveals is real, and really there.



Multi-Window Displays
Only StructureScan™ delivers the whole picture, with any combination of imaging, sounder and chartplotter views in up to four screen windows on HDS-8 and HDS-10 displays.

Unlimited Networking
With one StructureScan™ module and imaging transducer system:
- Share imaging and sounder transducers with up to three HDS onboard displays, each with display and function control.

With two StructureScan™ systems:
- Bow trolling motor for precise down imaging targeting without smear, even in the roughest water. Stern system for wider side-viewing surveys at console. Link both for any imaging and sounder display at any onboard HDS location.



More Choice Locations for Installation
The rugged, low-profile, low-drag imaging transducer design provides freedom of choices for mounting locations. **Flush-mounts** under transom step or motor jackplate. **Transom-mounts** with a unique stainless-steel bracket with protective kick-up feature for water hazard strikes. **Trolling motor mounting** with the optional adapter bracket.

StructureScan™ Imaging System Components

LSS-1 StructureScan™ Imaging powered module
LSS-1 455/800 kHz imaging transducer with 20 ft./6 m cable
Stainless steel transom-mount transducer bracket
15 ft./4.6 m ethernet network cable
12 vDC power cable
Operation and installation instructions

Model	Part
LSS-1 StructureScan™ Sonar Imaging system	00-0132-06
HDS-5I-BNDL	
HDS-5 multifunction fishfinder/chartplotter with LSS-1 StructureScan™ system, built-in Lake Insight™ mapping and 83/200 kHz Skimmer® transducer	000-00099-001

Accessories	Part
SS-TMB StructureScan™ transducer trolling motor bracket	000-0009-004
THSST-DF StructureScan™ thru-hull transducer	000-00099-003
10EX-BLK StructureScan™ 10 ft./3m transducer extension cable	000-00099-006
Ethernet Network Cables	
ETHEXT-6YL 6 ft./1.8 m	000-0127-51
ETHEXT-15YL 15 ft./4.5 m	000-0127-29
ETHEXT-25YL 25 ft./7.6 m	000-0127-30
ETHEXT-50YL 50 ft./15 m	000-0127-37

HDS® Ethernet Expansion

LWX-1 SIRIUS® Satellite Weather/Radio Smart Antenna

It's precisely the link you need to get the edge on wholly better, more enjoyable, and safer, fishing and boating with any and all HDS charplotter-equipped displays onboard.

Merge the LWX-1 plug-and-play option with your choice of SIRIUS® subscriptions, and be immediately weather-wiser...with real-time, high-detail and complete state-of-the-art satellite weather awareness.

A Fully Dedicated Weather Channel for Your Boat.

So complete. So accurate. So easy to install and use. Lowrance LWX-1 with SIRIUS® gives you the sharpest weather eye on the water for current and future conditions, with streaming updates every 5 minutes.

Weather Details To Float Your Boat.

At your fingertip with HDS, you have high-definition SIRIUS® weather with incredible imaging viewing detail. Wind direction and speeds. Precipitation by type. Current and 5-day forecasts. Storm fronts and lightning tracking. Dangerous weather warning and watch boxes. Weather maps with isobars. Marine zone forecasts. Sea surface temperatures (SST). Current and forecast wind & waves. Satellite cloud cover, and more. Everything you need to keep ahead of the weather, so you can keep from being in it.

HDS is Also So Entertaining.

Include SIRIUS® XM satellite radio with you weather package subscription, and enjoy what you want to hear when you want, from over 130 commercial-free channels. Music. Sports (NFL, NASCAR® and collegiate broadcasts). Plus domestic or international news services, exclusive music channels and family & kids programming.

The LWX-1 standard 3.5mm stereo jack easily connects with your onboard sound system, with HDS display channel/volume control.

Weather Smarts. As Easy as LWX-1-2-3-4.

1. Easy-to-install and waterproof, this 12-17 vDC powered system's antenna is simple to mount flush on a deck, a pedestal or pole.
2. Quickly connect satellite weather/radio to other compatible HDS units via plug-and-play ethernet for independent display viewing and control.
3. Easily overlay SIRIUS® NOWRad® weather radar on high-detail HDS Lowrance and Navionics® map/chart navigation displays for greater position details.
4. Don't miss a thing – LWX-1 memory saves the latest weather data for viewing up to 30 minutes after power-off, like when refueling.

Weather Anywhere and Everywhere in the U.S.

Only the Lowrance LWX-1 module comes with an exclusive selection of SIRIUS® subscription package options for wherever you live, fish or boat in the U.S. That includes nationwide, regional and local conditions/forecasts for inland natural lakes, reservoirs and rivers, to expansive Great Lakes and coastal waters.

Model	Part
LWX-1	000-0022-46

Accessories	Part
NEP-1 Ethernet expansion port	000-0132-031
Ethernet Network Cables	
ETHEXT-6YL 6 ft./1.8 m	000-0127-51
ETHEXT-15YL 15 ft./4.5 m	000-0127-29
ETHEXT-25YL 25 ft./7.6 m	000-0127-30
ETHEXT-50YL 50 ft./15 m	000-0127-37

Exclusive LWX-1 SIRIUS® Subscription Options

SIRIUS® package activation and subscription fees are additional to LWX-1 receiver/antenna purchase, and restricted to U.S. billing addresses only. For complete subscriber details, go to ***www.sirius.com/marineweather***

SIRIUS® Inland Weather LWX-1 Package

High-resoluton coverage up to 80 nm/90 mi. inland; up to 10 nm/11.5 mi. from coasts

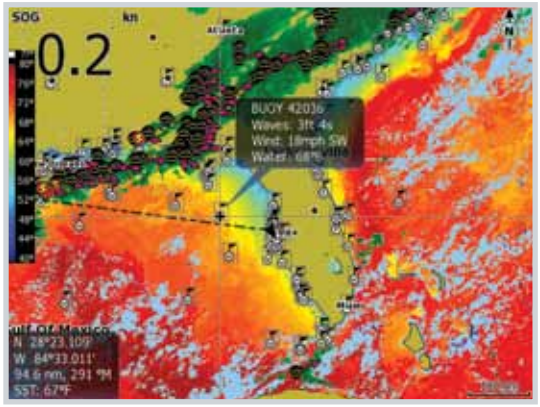
- NOWRad® weather radar with precipitation type
- Current and 5-day forecast
- Storm attributes (speed and direction)
- Lightning and radial weather display
- Weather warnings & watch boxes
- Tropical storm tracks with wind fields
- Latest weather forecast with icons/text for major U.S. cities
- Optional SIRIUS® Satellite Radio service at reduced fee.

SIRIUS® Mariner and Voyager Weather LWX-1 Packages

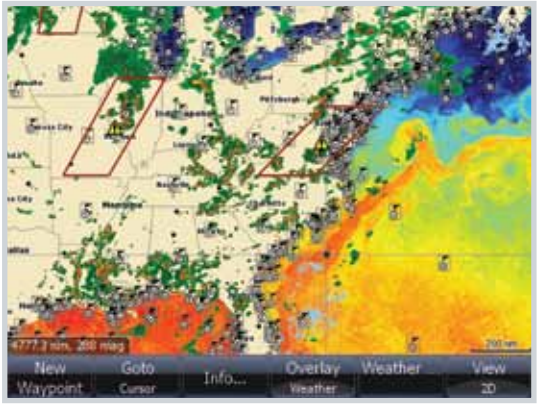
High-resoluton coverage up to 10 nm/11.5 mi from coasts

- NOWRad® weather radar with precipitation type
- Current and 5-day forecast
- Storm attributes (speed and direction)
- Lightning
- Weather warnings & watch boxes
- Weather observation and buoys
- Tropical storm tracks with wind fields
- Weather map/isobars (0-3 hr. Mariner; 0-72 hr. Voyager)
- Marine zone forecasts
- High-resolution sea surface temps
- Forecast winds & waves (0-3 hr. Mariner; 0-48 hr. Voyager)
- Satellite cloud cover
- SIRIUS® Satellite Radio service (included with Voyager subscription; reduced fee with Mariner)

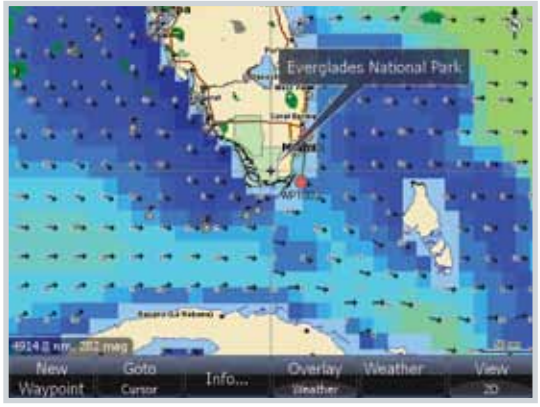
Inland SIRIUS® NOWrad® weather radar with lightning strike indicators



Sea Surface Temperatures with coastal NOWrad® weather radar



Sea Surface Temperatures with NOWrad® weather radar and severe-weather watch boxes



Colored wave-height indicator with wave arrows

HDS® Ethernet Expansion

NEW BR24 Broadband Radar™

Lowrance now introduces the most revolutionary new radar system since the invention of radar itself, for HDS. It's unlike anything else on the recreational boating market, delivering excellent and clutter-free detail for mid-range to extremely close-in targets with clarity, and with the mount-anywhere convenience of virtually no radiation. The first to bring the advantages of Frequency Modulated Continuous Wave (FMCW) technology to recreational boating, it's the newest Lowrance breakthrough for superior radar target detection and separation, ease of operation and a higher level of navigational safety to a wider range of boats, both coastal and, for the first time, inland freshwater pleasure and fishing boats.

Broadband Radar Features

Crystal Clear Image
Miss none of your immediate surroundings. Fantastic for tight maneuvers in marinas or in conditions of limited visibility.

InstantOn™
Solid-state technology produces an immediate, accurate on-screen image without warm-up.

Low Power Consumption
Broadband Radar requires very little power: ideal for all types and sizes of boats, including sail boats.

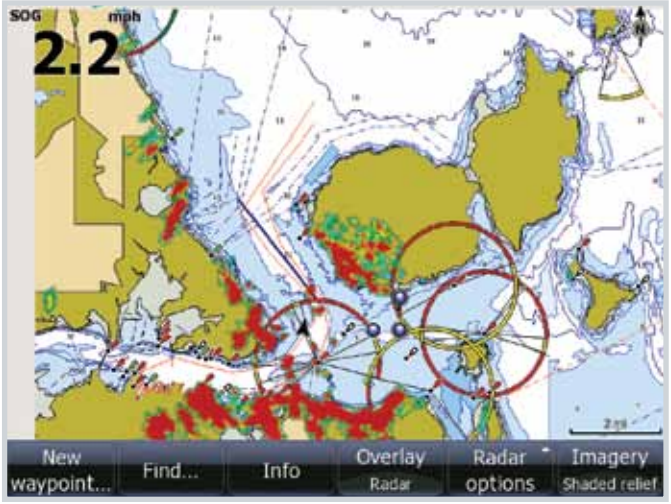
Extremely low emissions
This safest of radars means it can be mounted anywhere. Broadband Radar emits less radiation than a mobile phone.

Quick Installation
No reason to open the dome, no tune or zero mile adjustment, and best of all – no radar-licensed technician required.

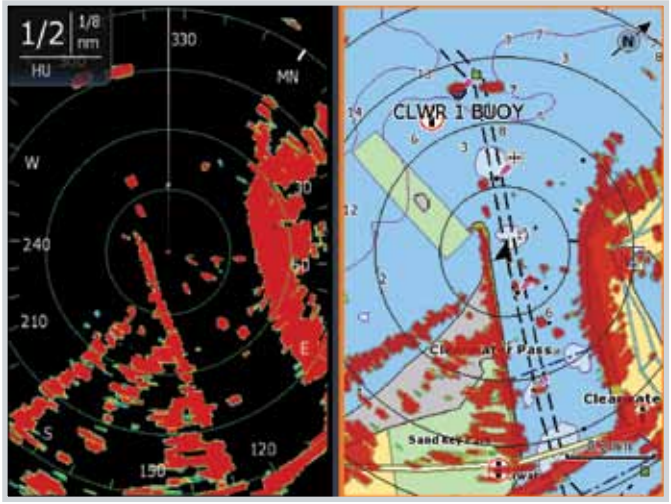
Automatic Clarity
Proven Auto Harbor and Offshore modes completely optimize the radar image – even on the shortest Broadband Radar range of 200 feet. Just steer.

click on **www.lowrance.com**

Essential Reading: View or download "Broadband Radar, The Essential Guide" for more on this amazing new technology to enhance your time and safety on the water.

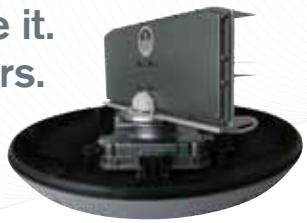


While excellent for detailing close-in targets, Broadband Radar also goes the distance, as shown in this display of the New Zealand coastline and outer islands at the 16 nm range. Showing the radar reach of distant coastlines in red, radar chart overlay improves situational awareness and navigation safety.



Broadband Radar and radar chart overlay window displays Clearwater Pass, Florida, clearly defining objects inside and outside the Pass. Contrasting radar with charting provides easy and quick comparison – any radar target and not seen on the chart would normally be other vessels. Such detail makes Broadband Radar a great aid to navigation, especially when visibility is restricted at night or in poor weather.

See what you need to see, when you need to see it. Achieve amazing target definition in close quarters. Safely, instantly and with superb clarity. Only with Broadband Radar™.



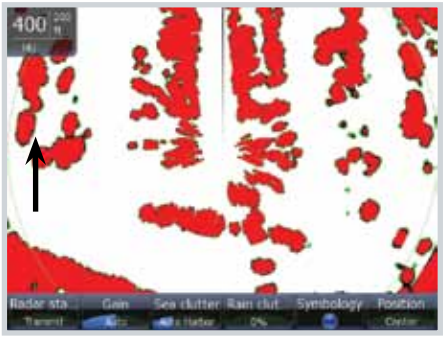
Only possible at this range as Broadband Radar has no main pulse suppression as a conventional radar. See targets close together, and as well-defined, separate targets.

Four posts to starboard with two vessels clearly visible behind

James Turner photo

In narrow harbors, it's easier to find your berth safely. Despite confusing direct and background lights that can make a night harbor entrance difficult, only Broadband Radar displays such close-in detail and clarity for greater precision navigation.

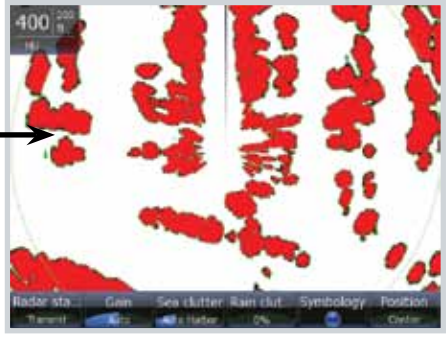
Left turn complete, moving along a row of boats



James Turner photo

Zoomed in to very short ranges, Broadband Radar distinctly shows individual boats in their slips; an ideal benefit when visibility is limited or compromised for sight navigation, especially at night. In comparison, conventional radar would not show such close-range detail, and merge multiple targets into a single group, if not obscured by the high-radiation main pulse display signature.

Vacant berths in a marina are easily identified



James Turner photo

Model	Part
BR24 with 33 ft./10 m scanner cable and ethernet adapter	AA010214

Accessories	Part
NMEA 2000® heading sensor options to activate radar/chart overlay display	
FC40 Fluxgate Compass, includes 16 ft./5 m SimNet NMEA 2000® cable	22090187
RC42 Rate Gyro Fluxgate Compass, includes 16 ft./5 m SimNet NMEA 2000® cable	22090195
Required for both compasses above: Adaptor Kit connects heading sensor to network, with SimNet-to-NMEA 2000® male adaptor, SimNet-2 joiner, T connector	000-0127-45

HDS® Ethernet Expansion

High Definition Digital Radar

Advanced Lowrance digital signal processing in high-definition radome choices for HDS. Fast, detailed radar detection of even small and distant targets with superb accuracy in dark, fog and rain alike. Compact, dependable and high-performance, both feature ethernet networking for onboard radar display sharing.

HD Digital Radome Features

Radar/Chart Overlay.
Interfaces charts and radar detail in a single, detail-rich display when coupled with an optional, compatible NMEA 2000® heading sensor.

Clearest Viewing.
Automatic Tune, Gain and Sea Clutter adjustment.

Smart STC.
Digital Sensitivity Time Control curves reject clutter with setting of return strength/distance thresholds.

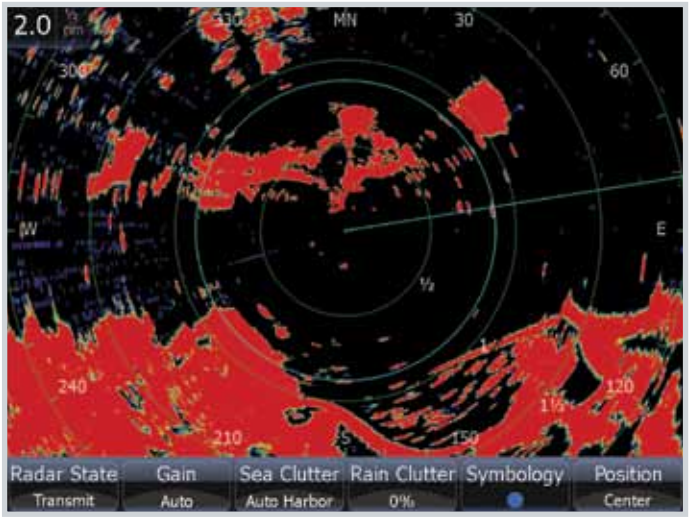
Color Recognition.
Color palette choices for improved target distinction based on viewing conditions.

LRA-1800 Radome

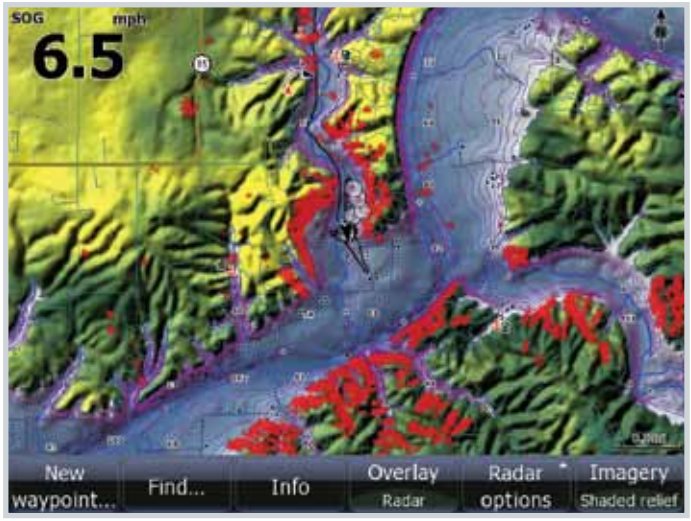
- 2 kW, 18in./46 cm scanner w/2 kW processor
- 5.2° horizontal beamwidth, 25° vertical beamwidth
- Up to 24 nm range

LRA-2400 Radome

- 4 kW, 24 in./61 cm scanner w/4 kW processor
- 4° horizontal beamwidth, 25° vertical beamwidth
- Up to 48 nm range



HDS high-definition radar display.



Radar chart overlay display.

Model	Part
LRA-1800 for HDS	000-0121-38
LRA-2400 for HDS	000-0121-39

Accessories	Part
NMEA 2000® heading sensor options to activate radar/chart overlay display	
FC40 Fluxgate Compass, includes 16 ft./5 m SimNet NMEA 2000® cable	22090187
RC42 Rate Gyro Fluxgate Compass, includes 16 ft./5 m SimNet NMEA 2000® cable	22090195
Required for both compasses above: Adaptor Kit connects heading sensor to network, with SimNet-to-NMEA 2000® male adaptor, SimNet-2 joiner, T connector	000-0127-45

Radar range depends on fog, rain and other atmospheric conditions.

Ethernet Modules

NEP-1 Ethernet Expansion Port

A plug-and-play hub for high-speed ethernet data-sharing of StructureScan™ imaging system, solid-state BR24 Broadband Radar™, and/or multiple HDS displays across the onboard network. Waterproof expansion ports resist corrosive marine environments. Unused expansion ports capped for future expansion.

- Compatible with all HDS models, plus 2007 and later LCX, LMS, X and GlobalMap® models with yellow 5-pin ethernet connector
- Connectivity for up to five compatible head units or ethernet product options per expansion module
- Robust 100-megabit switch for high-speed data transfer
- Transmits sonar graphing display/control on compatible chartplotters when networked with echosounder-equipped Lowrance displays and StructureScan™ imaging system option
- Rugged and fully waterproof to IPX-7
- Links with other NEP-1 modules for added/future expansion

Model	Part
NEP-1	000-0132-031

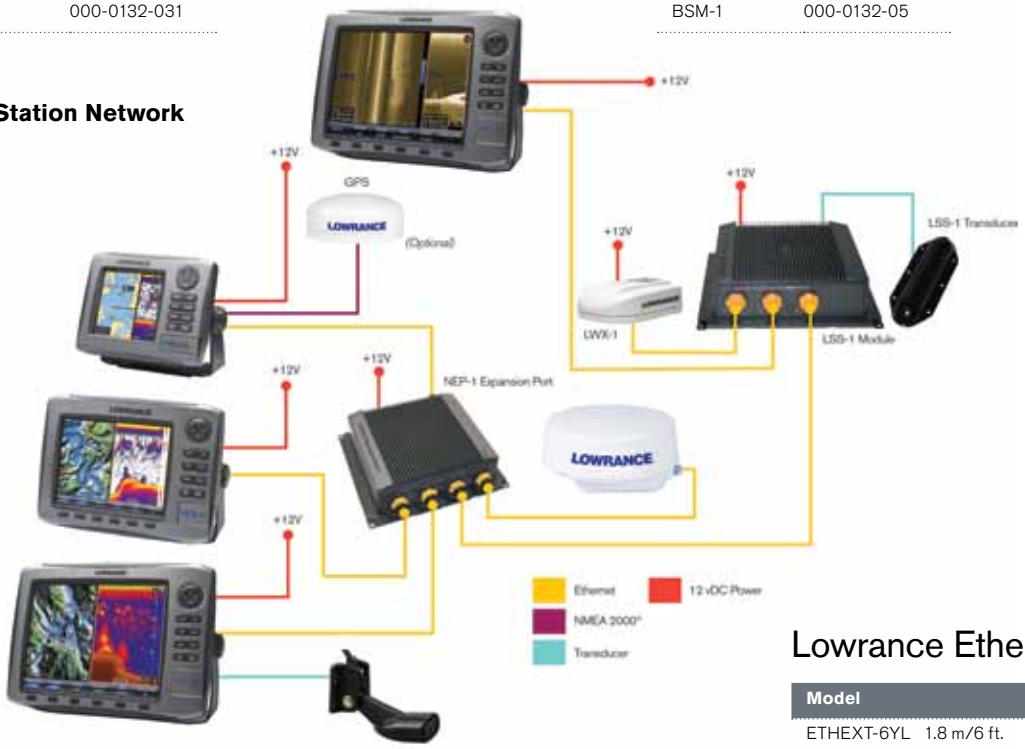
BSM-1 Broadband Sounder™ Module

An advanced upgrade to the previous LBS-1, this module brings built-in HDS Broadband Sounder™ sonar technology to 2007-2008 Lowrance LCX, LMS, X and GlobalMap® models with yellow 5-pin ethernet connector. Improved fish target marking in, around and through structure, while operating at high speeds in challenging conditions, with enhanced shallow and extreme depth sounding performance.

- Enhanced separation of fish targets from structure, baitfish, thermoclines, clutter and bottom
- Improved underwater fish-holding structure identification; channels, rock piles, wrecks, drop-offs and more
- Exceptional performance in any water/weather, at any depth or boat speed
- Works with any compatible transducer: Skimmer®, pod, shoot-thru and Airmar® bolt-thru hull
- Automatic operation at any functional frequency: 50, 83 and 200 kHz
- Tested sounding depths to 5,000 ft./1,525 m

Model	Part
BSM-1	000-0132-05

Multi-Station Network



Lowrance Ethernet Network Cables

Model	Part
ETHEXT-6YL 1.8 m/6 ft.	000-0127-51
ETHEXT-15YL 4.5 m/15 ft.	000-0127-29
ETHEXT-25YL 7.6 m/25 ft.	000-0127-30
ETHEXT-50YL 15 m/50 ft.	000-0127-37

NMEA 2000® Networking

Above-Standard Performance for the NMEA Standard

From Lowrance innovation comes the widest array of non-proprietary gauge display and configurable "smart" sensor devices for the NMEA 2000® networking standard. Compatible with all qualified NMEA 2000® networks, Lowrance products are singular for exceptional precision and features in navigation, onboard systems and outboard motor monitoring, and especially, in fuel management economies.

Be Precise. And Five Times Better with HDS®.

5 Hz LGC-4000 GPS Receiver Antenna

This 16-channel external GPS receiver/antenna delivers superior high-sensitivity in WAAS+EGNOS+MSAS satellite signal acquisition for incredible position accuracy (1x per second) for all NMEA 2000® networks except HDS. With HDS, that leaps to a true 5x per second update rate for the most accurate locational precision on earth. And water.

- Connects with NMEA 2000® networks for enhanced location accuracy and improved satellite-signal fix with reduced wandering
- Advanced performance for HDS displays with a real-time update rate of 5 times per second for the most accurate position readings
- Compact 3 in./75 mm diameter module is just 1.3 in./33 mm high and offers surface flush-mounting ease
- Includes spat cone for pole mounting
- Rugged for all marine environments and fully waterproof
- Compatible replacement for Lowrance LGC-3000, and LGC-2000 with adaptor

Model	Part
LGC-4000	000-0125-28
NAC-FRD2FBL – adapter to Lowrance blue NMEA 2000® network for LGC-2000 replacement	000-0127-05

LMF Multi-Function Gauges

Lowrance LMF in-dash displays are NMEA 2000® certified digital gauges providing precision and versatility for real-time delivery of vessel and engine data on the NMEA 2000® network. Plus, they're supported by the most extensive of affordable smart sensors, including Fuel Flow for optimum fuel management economies.

- User-custom screens of up to four different data readings in a choice of analog-style graphics or alpha/numeric readings
- Displays data from engines and other sensors on 13 customizable screen types
- Up to 16 page views in static, manual and timer screen rotation
- Features metric or Imperial fuel economy readings when used in conjunction with EP-60R Fuel Flow sensor and speed sensor: EP70R Speed, EP90R Pressure or speed over ground from GPS antenna

LMF-400 In-Dash NMEA 2000® Gauge

- 2.5 in./6.4 cm 132x132 pixel Film SuperTwist 4-level grayscale display with superb viewing in direct sunlight
- Advanced white LED screen backlighting
- Sealed and waterproof to IPX-7
- Fits standard 3-3/8 in./86 mm dia. hole

LMF-200 In-Dash NMEA 2000® Gauge

- 1.4 in./3.6 cm 65x65 pixel Film SuperTwist 4-level grayscale display with superb viewing in direct sunlight
- Advanced white LED screen backlighting
- Sealed and waterproof to IPX-7
- Fits standard 2-1/8 in./55 mm dia. hole

Model	Part
LMF-400	000-0049-541
LMF-200	000-0049-551

Electronic Probe System Sensors

Lowrance offers the most NMEA 2000® sensors for vital vessel data monitoring, each with a built-in "smart module" that's fully programmable for greater accuracy in dedicated system sensor data delivery.

EP-60R Fuel Flow

Configurable, for gasoline only, one per engine. Sapphire bearing technology extends life and increases accuracy even at low flow. Outputs Fuel Flow, Fuel Used, Trip Fuel Used and Seasonal Fuel Used data to the network for fuel management. NMEA 2000® certified.

EP-65R Fluid Level

Compatible with standard U.S. and European sending units and a range of fluids: fuel; fresh, waste or black water; live well; and oil. Allows calibration for more accurate fluid level readings for boats with odd-shaped tanks. NMEA 2000® certified.

EP-70R Speed

Paddle wheel for speed and distance display; NMEA 2000® certified.

EP-80R Temperature

Configurable sensor for surface water, livewell, baitwell, cabin and engine room temp readings, -4° to 176°F /-20°C to 80°C. NMEA 2000® certified.

EP-80R TH Temperature

Configurable surface water temp sensor for thru-hull installation. NMEA 2000® certified.

EP-85R Storage Device

Accumulates and stores real-time engine data of fuel flow messages for up to three engines connected to a NMEA 2000® network for fuel range calculations and display.

EP-90R Pressure

Outputs pitot speed or engine pressure readings – boost, coolant, fuel, engine or transmission oil. 100 psi max.

Engine Interface Sensors

Cabled sensors for top outboard motor brands connect to NMEA 2000® networks for engine data display. Includes interface sensor, 15 ft./4.5 m cable and network bus T connector.

Model	Part
EP-60R Fuel Flow sensor	000-0120-39
EP-65R Fluid Level sensor	000-0120-41
EP-70R Speed sensor	000-0120-49
EP-80R Temperature sensor	000-0120-51
EP-80R TH Thru-hull Temperature sensor	000-0120-53
EP-85R Storage Device	000-0120-73
EP-90R Pressure sensor	000-0120-29

Model	Part
Evinrude engine interface	000-0120-62
Yamaha engine interface	000-0120-37
Suzuki engine interface	Available from Suzuki

NMEA 2000® Network Starter Kit

Easily begin building your own expandable NMEA 2000® onboard network, to add sensors and displays for your needs, at your pace. NMEA 2000®-compliant components include two T-connectors, 2 ft./0.6 m cable, 15 ft./4.5 m cable, two terminating resistors and network power cable.

Model	Part
N2K-EXP-RD-2	000-0124-69

VHF Marine Radios

For safety's sake, get in touch with the unbeatable quality, features, price and especially, the dependability of Lowrance VHF marine communications.

LVR-880 DSC VHF+FM Fixed-Mount Marine Radio

The first with an FM and NMEA 2000® interface for Track-Your-Buddy®. Plus other premium features in an exceptional 25W/1W DSC marine radio.

Special Features

- VHF plus stereo FM radio receiver with powerful dual audio amps
- Exclusive "Track-Your-Buddy" feature connects DSC hi-res position polling to Lowrance NMEA 0183 and NMEA 2000® chartplotters to show the location of up to three boating friends on the GPS chart display
- GREAT CIRCLE NAVIGATION to WAYPOINT with data transfer capability to chartplotters
- 200 waypoints with up to six character alpha/numeric naming
- Dual weather alert systems provide S.A.M.E. for county-to-county monitoring and standard NOAA Wx 1050Hz tone alert
- Simplified intercom with talkback plus built-in 22W hailer-horn
- Large 2.24" (57 mm) speaker for great audio output when running at high speed
- Instant "GO" and MOB key

Model	Part
LVR-880U	000-0022-20
LVR-250U	000-0022-19
LHR-80U	000-0022-17

Optional Accessories	
LVR-880/LVR-250	
3.3 ft./1 m Ultraglass detachable 3 dB fiberglass VHF antenna	AA000358
8 ft./2.4m Ultraglass detachable 6 dB fiberglass VHF antenna	AA000355
VA-2 8 ft./2.4m fiberglass VHF antenna	AA000352
Nylon fold-down fast-fit antenna mount	AA000223
Stainless steel fold-down fast-fit antenna mount	AA000224
16.4 ft./5 m fast-fit VHF extension cable	AA000400

LVR-250 DSC VHF Fixed-Mount Marine Radio

Solid reliability and attractive features without the high price in a high-quality 25W/1W fixed-mount VHF marine radio with DSC.

Special Features

- Weather alert
- Super-large 16/9 calling channel key
- Three favorite channel mode with scan
- Local/Distant feature eliminates interference
- Selectable Dual and TriWatch modes

Shared LVR-880/LVR-250 Features

- Full SC-101 automatic distress operation transmits/receives hi-res vessel position and group calls via NMEA 0183 and (LVR-880) NMEA 2000® output to chartplotters
- Channel naming
- Immediate GPS boat position and time when connected to a compatible GPS chartplotter
- Large, clear FSTN screen with lat/lon position display without scrolling
- Six tactile microphone keys with WX key, powerful speaker and easy left- or right-handed control
- Rotary Channel control with press-to-enter
- Three favorite channel mode with scan
- 3W external speaker jack
- Case and microphone fully waterproof (JIS 7 submersible)
- All available USA, Canadian, International and 10 weather marine channels with channel naming (country specific)
- Flush-mount kit and dust cover included

What's DSC?

Digital Selective Calling (DSC) provides for instant distress calls and digital messaging, and is a component of the international Global Maritime Distress and Safety System (GMDSS).

When connected with a GPS, the time, precise location and unique ID of the vessel in trouble is automatically broadcast when the DISTRESS button is pressed. So simple, it allows even a non-experienced VHF user to send this continuous distress message with a one-button procedure.

With DSC you can privately hail another DSC-equipped vessel, or shore station, with a known MMSI (Maritime Mobile Service Identity) number. It will also "ring" and notify you that you have a private hail, and automatically switch you to the open channel your caller is waiting on.

You can also send and receive messages digitally with DSC -- between one selected vessel, a group of vessels or ship-to-shore – by dialing-in the MMSI number(s).

It's also the position polling feature of DSC that allows you to keep chartplotter track of your friends' locations who have VHF DSC with the unique Lowrance Track-Your-Buddy feature.

What's Track-Your-Buddy?

This special function is for safety, teamwork, convenience, and even just for fun.

It's a great feature that allows you to connect your VHF DSC position polling with chartplotter to show the location of up to three boating friends on the chart display.

It's also easy to set up: You need a Lowrance LVR-880 fixed mount (or LHR-80 handheld) VHF, the MMSI number of your buddies' VHF DSC radios and a Lowrance HDS GPS chartplotter. Your VHF will regularly poll your buddies' positions, and the chartplotter will regularly update their locations by MMSI number on your screen.

Track-Your-Buddy is a truly great aid in locational awareness of your friends in a group boating excursion.

What's Get-Buddy?

Another exclusive Lowrance innovation, Get-Buddy lets up to 10 companions in your group with LHR-80 radios transmit individual bearing and distance of their location to all buddies – instantly, in real-time and on a single working channel – with a simple press of a button.

Just have the group's MMSI/names stored in each, with all on the same channel and their Get Buddy feature activated. The press and release of the PTT on one LHR-80 handheld sends out a digital packet to all others in range. Each receiving radio processes the packet and displays the exact distance and bearing of the sender from each receiving radio's location.

From easily keeping track of a group in a cruise, to MOB coordination, to creating an instant rally point, Get-Buddy is a great way to draw a crowd with the fewest words.

Floatable LHR-80 VHF/GPS Handheld DSC Marine Radio

Advanced and affordable 5/1W waterproof VHF handheld features DSC, built-in 12-channel GPS receiver, trackplotter, Great Circle navigation, and more. Plus it floats!

Special Features

- Floatable and totally JIS-7 waterproof
- Huge 128x128 pixel bit-mapped LCD backlit display for maximized viewing
- Built-in 12-channel GPS receiver with lat/lon output, trackplotter display, local waypoint icons and cursor control
- Great Circle navigation display with 500 waypoints and MOB
- Full SC-101 DSC distress calling operation
- Long-life (up to 8+ hours), high-capacity 1400mAh Li-Polymer battery with rapid charger
- Unique Track-Your-Buddy and Get-Buddy features to locate vessels using position polling
- Flexible Dual and TriWatch channel monitoring

Standard Features

- All International, Canada and USA channels with 10 Weather channels and NOAA Wx tone alert
- Selectable 5/1W transmit power
- NMEA 0183 output while on cradle
- Volume, Channel and SQL Control with Up/Down
- Three favorite channel mode with scan
- Instant 16 key
- Illuminated Function Keys and Keylock
- Power Saving Circuitry
- Battery indicator with 1-4 bars
- SMA antenna connector
- Power Source: 7.4 vDC (7.4V 1400mAh Li-Polymer battery pack)
- Battery Life:
  - » 8 Hours (5W Power on 5%:5%:90% ratio, GPS on)
  - » 9 Hours (5W Power on 5%:5%:90% ratio, GPS off)
- Dimensions WxHxD: 2.7 x 5.5 x 1.5 in./68 x 140 x 38 mm
- Display Size WxH: 1.5 x 1.5 in./38.7 x 38.7 mm
- Weight: 0.70 lbs. (0.318 kg)

Includes

- Radio with 1400mAh Li-Polymer battery pack
- Rubber Duck Antenna
- Desk Top Charging Cradle with NMEA 0183 ouput
- 120V AC Wall Adapter for Desk Top Cradle
- Wrist strap and belt clip
- Operation Manual

HDS® Cartography

NEW Insight HD U.S. Inland Mapping and Coastal Charting Cards for HDS

A Technology Turbo-boost in Navigation Detail and Awareness to Maximize Your Time, and Safety, on the Water. Just Plug, Play and Go.

Incredible, exclusive Lowrance Insight inland and coastal cartography is now even better for anyone who navigates to fish or boat in the continental U.S. Think of Insight HD as your newest option to supreme, HDS dimensional navigation guidance, with multiple choices, now with the convenience of plug-and-play viewing.

4X Better Detail

Insight HD cards give HDS users a powerful new reference tool with four times better resolution for closer-in zoom detail.

Improved Dimension and Depth Perception

Now with even higher-definition shaded relief, Insight HD map and chart cards display a striking look and feel of 3D viewing for an immediate and accurate reading of submerged topography at a glance. Quickly find fish-holding areas, while avoiding dangerous waters just as fast.

Fishing Hot Spots® Inland and Coastal Detail Boost

Also featured is renowned Fishing Hot Spots detail and information for fishing success, for both inland and coastal Lowrance Insight HD cards. Enjoy reliable guidance on where to fish, what to fish, how to fish, onshore facilities, and more to save you time and gas in finding proven, productive waters.

Space to Save

Every Lowrance Insight HD card gives you ample memory to save fishfinder and GPS data in terms of gigabyte free space. Record/save sonar logs and screenshots, as well as your GPS waypoints/routes/trails and settings without using a separate SD memory card.

Premium Coverage Options

For wherever you take your HDS and your fishing gear in the U.S., Insight HD card options have you covered. Premium, high-detail new choices that, surprisingly, don't cost a premium.

Lowrance Lake Insight™ HD

One card with complete, high-detail coverage of continental U.S. inland waters including the Great Lakes, plus coastal coverage.

- Exclusive Fishing Hot Spots detail for over 500 popular lakes
- High-definition 8 m/pixel resolution shaded (dimensional) relief viewing
- User-selectable depth contour lines on/off
- Over 5,000 lakes with enhanced shoreline detail and depth contours
- More than 100,000 names bodies of water

Lowrance Nautic Insight™ HD

Two card choices with superb U.S. coastal and offshore saltwater coverage to find productive marine fishing fast.

- **Nautic Insight HD East:** inshore/offshore coverage from Maine, around Florida, and Gulf Coast to all of Texas with Fishing Hot Spots coastal detail areas; select Bahamas region charting
- **Nautic Insight HD West:** inshore/offshore west coast charting from California to Washington and Hawaii with Fishing Hot Spots features southern to central California
- Navaids and information
- Tides and currents displays
- High-detail inshore/offshore contour with high-resolution shaded (dimensional) relief viewing
  - » 8 m/pixel resolution up to canyons
  - » 32 m/pixel beyond canyons detail
- User-selectable depth contour lines on/off
- Lake Insight™ HD inland lake mapping detail within 100 mi. of coast, including Fishing Hot Spots lakes data

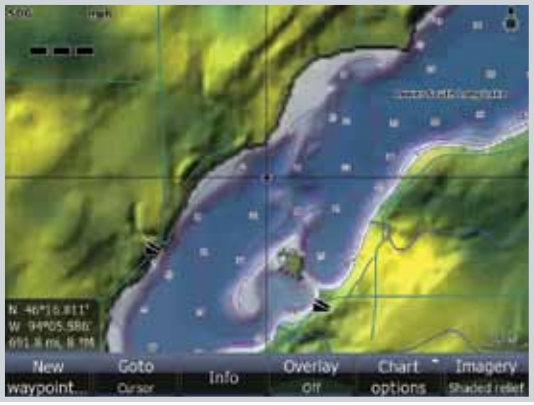
LakeMaster® Insight™ HD

For HDS anglers on-the-water and on-the-ice in mid-north U.S. states, Lowrance Insight shaded relief merges with LakeMaster high-definition data to bring a whole new dimension to lake fishing success.

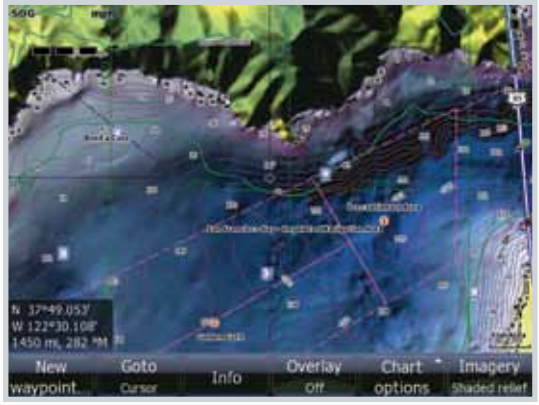
- Immediately-recognizable dimensional and detailed underwater structure viewing
- Greatly-detailed shoreline and depth contours for over 2,700 total lakes with LakeMaster high-res surveys on over 440 lakes
- High-definition 8 m/pixel resolution viewing
- User-selectable depth contour lines on/off
- Choice of six cards with full coverage for: Iowa/Illinois, Minnesota, Michigan, North and South Dakota, Wisconsin and Lake of the Woods/Rainy Lake

LakeMaster Insight HD cards for HDS available only from LakeMaster. Visit ***www.lakemap.com*** for lake listings and ordering information.

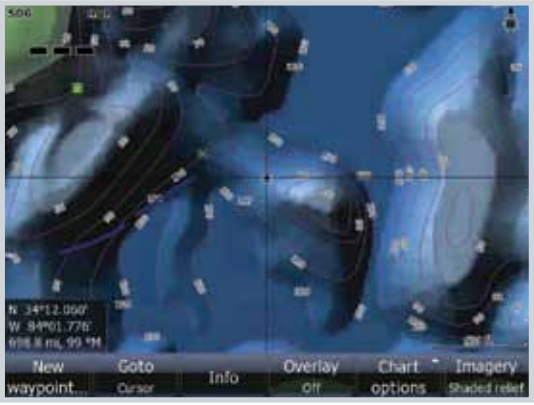
Model	Part
Lake Insight HD U.S. mapcard	000-10039-001
Nautic Insight HD East U.S. chartcard	000-10041-001
Nautic Insight HD West U.S. chartcard	000-10040-001



Lake Insight HD – Lower South Long Lake, MN detail zoomed to 0.2 mi. showing.

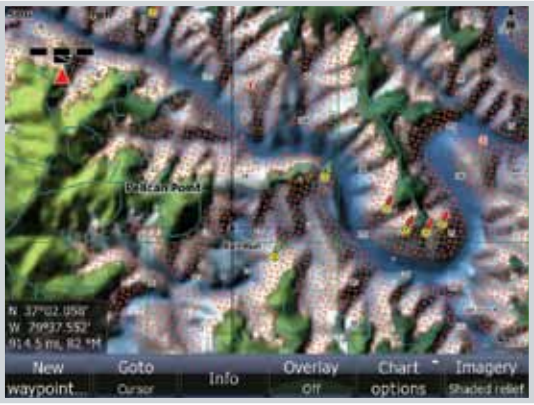


Nautic Insight HD – Details with unique viewing dimension for navigating the entry or exit of San Francisco Bay.



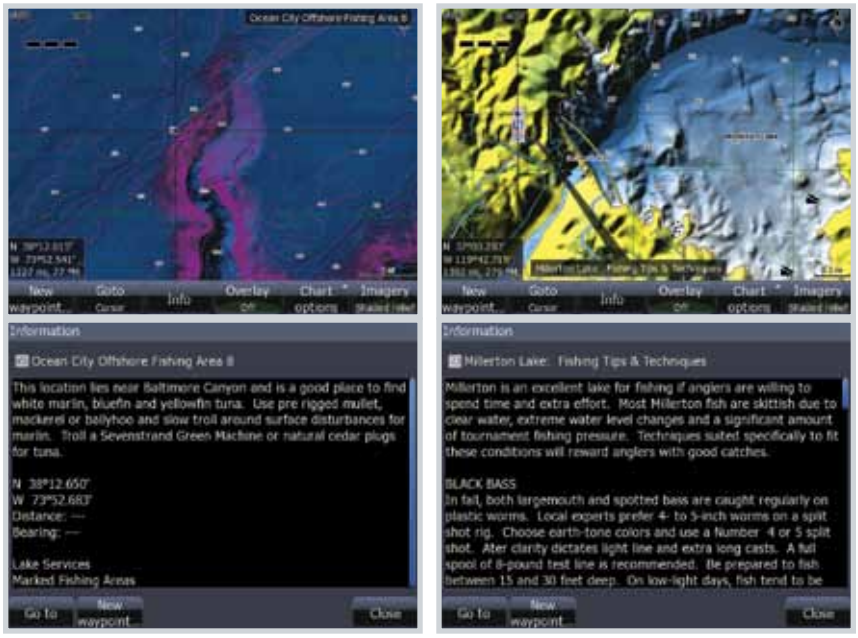
Lake Insight HD – Exquisite close-in detail of Lake Lanier with vital depth contour and other detail.

Nautic Insight HD – Helpful shaded relief, navigation aids and total water/land situational awareness shown for the Miami Beach Government Cut.



Lake Insight HD – Supreme navigation and fishing guidance for Smith Mountain Lake with key Fishing Hot Spots data.

Nautic Insight HD – Exceptional HDS view of Nantucket Sound with Tide, Current and other and other important navigation detail including the lay of the surrounding water and land.


Information
Ocean City Offshore Fishing Area 8
This location lies near Baltimore Canyon and is a good place to find white marlin, bluefin and yellowfin tuna. Use pre rigged mullet, mackerel or bailyhoo and slow troll around surface disturbances for marlin. Troll a Sevenstrand Green Machine or natural cedar plugs for tuna.
Lake Services
Marked Fishing Areas
Go to
New waypoint
Close
Information
Millerton Lake: Fishing Tips & Techniques
Millerton is an excellent lake for fishing if anglers are willing to spend time and extra effort. Most Millerton fish are skittish due to clear water, extreme water level changes and a significant amount of tournament fishing pressure. Techniques suited specifically to fit these conditions will reward anglers with good catches.
BLACK BASS
In fall, both largemouth and spotted bass are caught regularly on plastic worms. Local experts prefer 4- to 5-inch worms on a split shot rig. Choose earth-tone colors and use a Number 4 or 5 split shot. After clarity dictates light line and extra long casts. A full spool of 8-pound test line is recommended. Be prepared to fish between 15 and 30 feet deep. On low-light days, fish tend to be
Go to
New waypoint
Close

Fishing Guidance – Fishing Hot Spots inland and coastal detail, included exclusively with Lake and Nautic Insight HD cards, give time-saving pointers on what to fish and where.

HDS® Cartography

Navionics® Options for HDS®

Superb coverage with powerful plug-and-play electronic charting choices for supreme navigational awareness. Simply insert into your compatible Lowrance chartplotter for the greatest of detail.

Navionics®

Lowrance gives a greater dimension in charting selections for all HDS chartplotters with full Navionics® compatibility -- the world's largest and most experienced provider in worldwide electronic marine cartography.

Platinum+

The most advanced technology and best imaging available in multi-dimensional charts provide complete coast pilot, high-resolution top-down photo/chart overlay, full-view panoramic pictures, improved 3D view and high-definition fishing detail included on the same chartchip. *www.navionics.com* for more.

Platinum

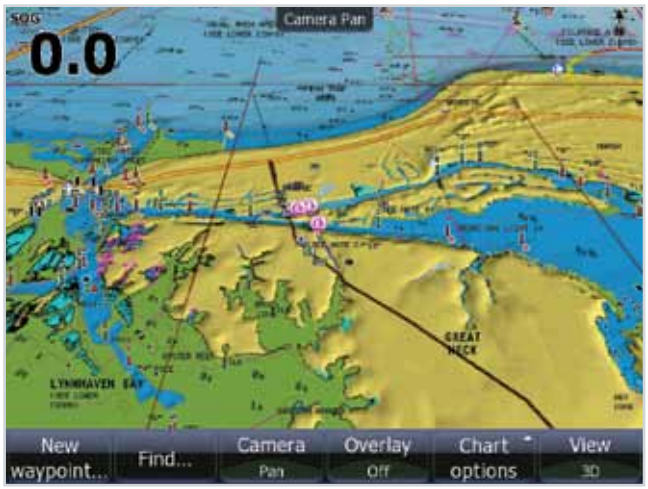
The first and most award-winning multi-dimensional electronic charts for chartplotters, each provide a whole new perspective for navigation with complete coastal pilots and satellite imagery overlays and 3D view and panoramic pictures, plus free high-definition fishing detail is now included. *www.navionics.com* for more.

Platinum Charts Powered by TurboView™

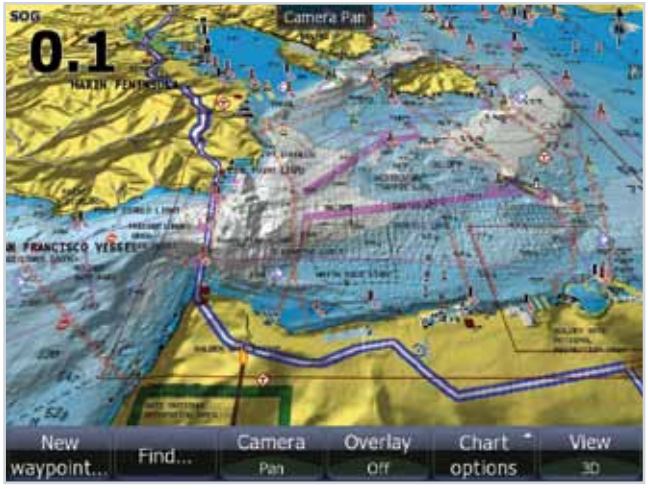
As embedded software in all Lowrance HDS chartplotter models, TurboView™ greatly enhances the display of all Navionics Platinum, Platinum+ and HotMaps Platinum Lake Maps for supreme situational awareness. The result is seamless zooming and with Platinum transition between 2D and 3D modes, improved shadowing for greater depth perception, real-time overlay of nav data on 3D contour profiles, and a special FlyThru feature that integrates high-speed chart panning and zooming with photography for a new and helpful boater perspective.

Gold

Navionics® Gold electronic charts are a fundamental tool of navigation, with features tuned for serious fishing and cruising such as wrecks, port services enhancements, major coastal roads and high-definition fishing detail showing near-shore and offshore structure, ledges and canyons. *www.navionics.com* for more.

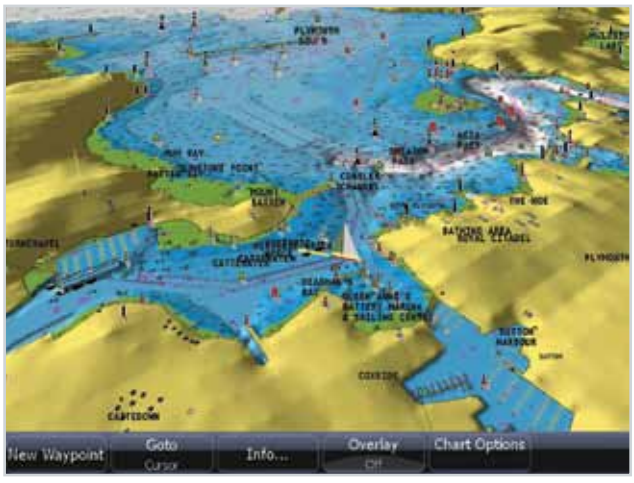


Navionics® Platinum+ 2D

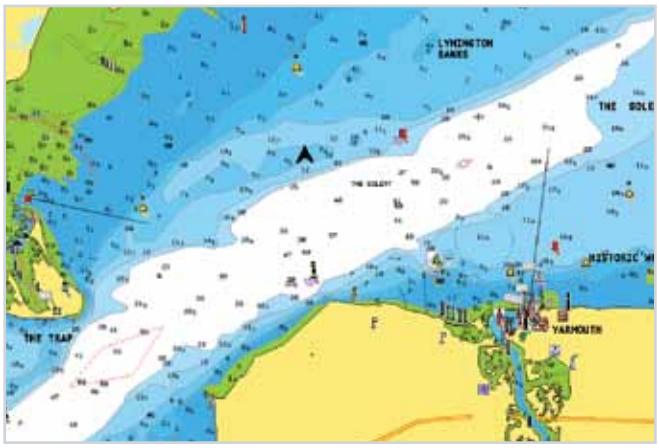


Navionics® Platinum+ 3D

Navionics® Platinum+ 3D with satellite overlay



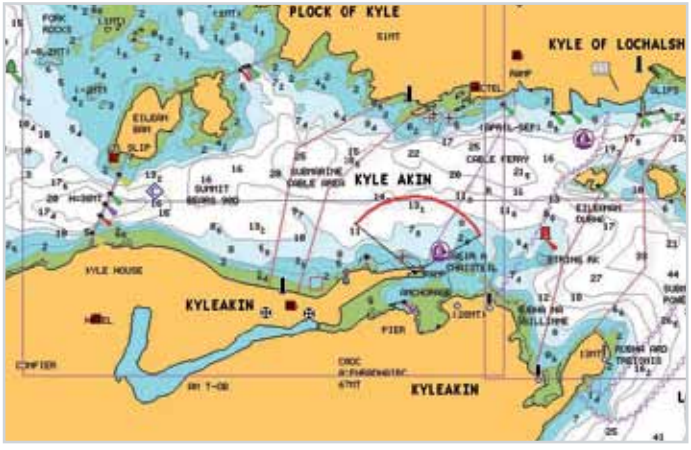
Navionics® Platinum+ 3D



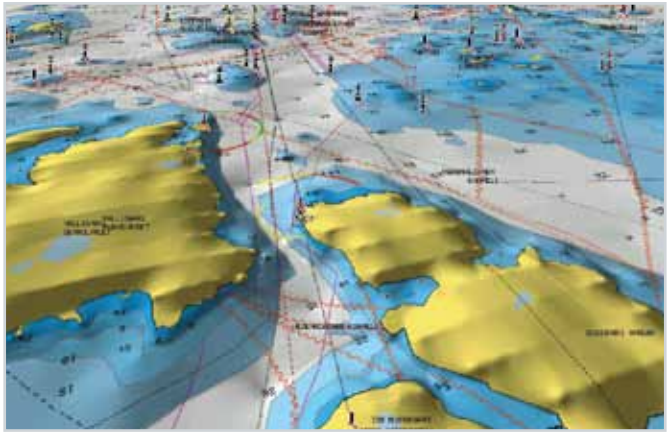
Navionics® Platinum+ 2D

Navionics® Platinum+ 3D

Navionics® Platinum+ Aerial



Navionics® Gold



Navionics® Platinum+ 3D

Navionics® Platinum+ 3D with satellite overlay

Performance Transducers

Lowrance integrates with the widest choice of high-sensitivity transducers to suit your boat, your preference and your expectations for superior performance in fishfinding and bottom sounding, at virtually any depth.

Transom-Mount Skimmmer® Transducers

Popular, proven and so much better by design, high-speed Skimmer® transom-mount transducers slice smoothly through water without sonar-interfering bubbles. So you enjoy ideal sounding performance and the cleanest sonar readings, even at speeds up to 70 mph/61 kts. Ideal for aluminum- and steel-hull outboard and stern-drive (I/O) boats, each Skimmer® includes a built-in sensor for water temp readings. Plus, the special "kick-up" bracket helps prevent accidental strike damage.

200 kHz Skimmer®

The choice for inland freshwater and in-shore coastal saltwater angling. Built-in temp sensor and up to 120° of wide fish detection coverage with the added 83 kHz operation feature when used with HDS models. Also used for shoot-thru sounding (without temp readings) on fiberglass hulls with proper installation.

200 kHz Skimmer® Portable

For go-anywhere portability, and a handy option for the IceMachine™ portable, with easy-mounting suction cup bracket. Built-in temp sensor and up to same 120° coverage with HDS sounder connection. Not for high-speed use.

50/200 kHz Skimmer®

For deeper salt water or downrigger tracking with built-in temp sensor. Not for shoot-thru-hull use.

Versatile 200 kHz Pod Transducers

Expanded underwater coverage with the versatility of trolling motor mount, or shoot-thru operation on solid fiberglass hulls. Contour curve top and slot for hose clamp simplifies motor-mounting. Available with or without built-in temp sensor, all deliver wider fish detection coverage with high-sensitivity settings.

Deep-Sounding Transducers

Lowrance also connects with a wide selection of Airmar® thru-hull and in-hull transducers made for ultimate deep-sounding performance while reducing or eliminating drag.

P79 In-Hull – 50/200 kHz, 600W RMS

Easily adjusts to hull deadrise angles up to 22° to ensure the beam is correctly oriented for accurate depth readings. The base is bonded to the hull and filled with liquid, and the transducer then attaches to the base with a twist lock. The sound waves travel more efficiently though the liquid, giving the best possible performance.

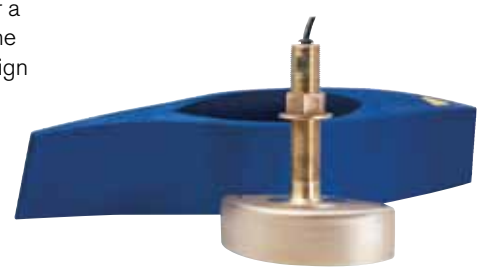
P319 Thru-Hull – 50/200 kHz, 600W RMS

Features a 50/200 kHz, dual-frequency, single-ceramic element in a low-profile housing. Plastic, bronze or stainless steel models are available to accommodate all hull types with a flush design that minimizes drag.

B164 Thru-Hull – 50/200 kHz, 1kW RMS

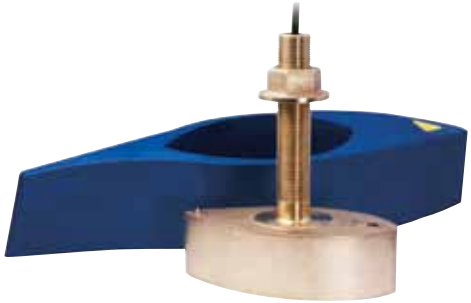
Tilted Element™ technology lets you step up to higher 1kW power without a fairing. Flush mounted with less than 6.35 mm (0.25") hull exposure, it can sit on trailer rollers and bunks with no damage at all. Perfect for fast, trailered tournament sport fishing vessels who cannot have a high-performance fairing, the internal tilted ceramic array focuses the perfect vertical beam with maximum energy directly below your boat.

B258 Thru-Hull – 50/200 kHz, 1kW RMS



Excellent sportfishing performance for a moderately priced 1 kW transducer. The economical, four-ceramic element design provides deep water sounding with superb target and bottom definition. Airmars high-performance fairing recommended for the best possible results.

B260 Thru-Hull – 50/200 kHz, 1kW RMS



One of the best high-performing 1 kW bronze thru-hull for 300 W to 1 kW echosounders. Separate 50 kHz and 200 kHz elements for unparalleled deep water performance and unmatched bottom and water column detail. Provides crisp image detail for fishing shelves, intricate bottom structures and wrecks.

M260 In-Hull – 50/200 kHz, 1kW RMS

A high performance model for 300 W-1 kW echosounders with separate 50 kHz and 200 kHz elements for excellent deep-water performance and exceptional bottom and water column detail. Designed for bow stern or port starboard in-hull mounting, the narrow beam provides crisp image detail especially suited for fishing shelves, intricate bottom structures and wrecks with precise readings even at boat speeds above 20 knots.

B60 Thru-Hull – 50/200 kHz, 600W RMS

The bronze B60-12° provides a vertical beam without a fairing. An internal ceramic element is tilted to provide built-in deadrise compensation providing excellent echo returns for more accurate depth readings. The nearly flush housing minimizes drag.

B744V Thru-Hull – 50/200 kHz, 600W RMS

Drill only one hole in your boat with this TRIDUCER® multisensor model that features depth, speed, and temperature in a single housing. Single ceramic 50/200 kHz dual frequency element for excellent shallow water detail and deep water bottom tracking. Extended stem length provides extra height for steep deadrise vessels or thick cored hulls.

Compatible Lowrance HDS transducer selections. Page 28.

Performance Transducers

Compatible HDS Sonar Transducers, Temp and Speed Sensors and Adapters/Switches.

Lowrance Blue-Connector Transducers

Model	Part
HST-WSBL 83/200 kHz transom-mount Skimmer® with built-in temp sensor	000-0106-72
HST-DFSBL 50/200 kHz transom-mount Skimmer® with built-in temp sensor	000-0106-77
HS-WSBL 83/200 kHz transom-mount Skimmer® w/o temp sensor	000-0106-71
PDRT-WBL 83/200 kHz trolling motor-mount or shoot-thru-hull pod transducer with remote temp sensor	000-0106-89
PD-WBL 83/200 kHz trolling motor-mount or shoot-thru-hull pod transducer w/o temp sensor	000-0106-73
PDT-WBL 83/200 kHz trolling motor-mount or shoot-thru-hull pod transducer with built-in temp sensor	000-0106-74

Airmar® Blue-Connector Transducers

Model	Part
P319 Plastic 50/200 kHz low profile bolt-thru-hull with temp sensor, 45/12° beamwidths	000-0136-02
P79 Plastic 50/200 kHz shoot-thru-hull w/o temp sensor, 45/12° beamwidths	000-0136-03
B60 Bronze 50/200 kHz low profile bolt-thru-hull with temp sensor, 45/12° beamwidths and 20° tilt	000-00021-001
B744V Bronze 50/200 kHz bolt-thru-hull with speed and temp sensors, 45/12° beamwidths and high-speed fairing block	000-0136-05
B164 Bronze 50/200 kHz low profile 1 kW bolt-thru-hull with temp sensor, 22/20° - 6/6° array beamwidths and 12° tilt	000-0136-06
B258 Bronze 50/200 kHz bolt-thru-hull with temp sensor, 15/21° - 3/5° array beamwidths and high-speed fairing block	000-0136-00
B260 Bronze 50/200 kHz bolt-thru-hull with temp sensor, 19/6° beamwidths and high-speed fairing block	000-0106-82
M260 Plastic 50/200 kHz shoot-thru-hull tank-type, 19/6° beamwidths	000-0106-91

Lowrance Blue-Connector Speed & Temp/Adapters/Switches

Model	Part
SP-BL transom-mount paddlewheel speed sensor (non-networked)	000-0099-96
PSP-TBL transom-mount paddlewheel speed/temp sensor (non-networked)	000-0099-97
TS-1BL temp sensor (non-networked)	000-0099-95
XT-12BL 12 ft./3.7 m transducer extension cable	000-0099-93
XT-20BL 20 ft./6 m transducer extension cable	000-0099-94
TMB-S trolling motor bracket mount for Skimmer® transducer	000-0051-45
Suction Cup Kit for Skimmer® transducer portable fish-finding	000-0051-52
AC-CAF – 120 vAC to 12 vDC power adapter with female 12 vDC accessory (cigarette lighter) socket	000-0099-44
CA-8 – Power cable with 12 vDC accessory (cigarette lighter) plug compatible with all Lowrance blue power connector models	000-0119-10
SB-9BL – Switch box; switches two blue-connector transducers between one Lowrance blue-connector sonar	000-0046-26
SB-10BL – Switch box; switches one blue-connector transducer between two Lowrance blue-connector sonar units	000-0046-27

Specifications

HDS® Fishfinder/ Chartplotter

	HDS-10	HDS-8	HDS-7	HDS-5	HDS-5x
Display	10.4 in./26.4 cm 16-bit color SolarMAX™ PLUS TFT	8 in./20.3 cm 16-bit color SolarMAX™ PLUS TFT	6.4 in./16.3 cm 16-bit color SolarMAX™ PLUS TFT	5 in./12.7 cm 16-bit color SolarMAX™ PLUS TFT	5 in./12.7 cm 16-bit color SolarMAX™ PLUS TFT
Resolution	Super VGA 600V x 800H pixels	Super VGA 600V x 800H pixels	Full VGA 480V x 640H pixels	High Contrast 480V x 480H pixels	High Contrast 480V x 480H pixels
Backlighting	Pure white LED screen/ keypad adjusts to zero dim	Pure white LED screen/ keypad adjusts to zero dim	Pure white LED screen/ keypad adjusts to zero dim	Fluorescent cold cathode adjustable screen/keypad	Fluorescent cold cathode adjustable screen/keypad
Power Output	250W/32W RMS actual; 30,000W/3,750W RMS analog equivalent	250W/32W RMS actual; 30,000W/3,750W RMS analog equivalent	250W/32W RMS actual; 30,000W/3,750W RMS analog equivalent	250W/32W RMS actual; 30,000W/3,750W RMS analog equivalent	250W/32W RMS actual; 30,000W/3,750W RMS analog equivalent
Operating Frequency	50/200 kHz or 83/200 kHz	50/200 kHz or 83/200 kHz	50/200 kHz or 83/200 kHz	50/200 kHz or 83/200 kHz	50/200 kHz or 83/200 kHz
Depth Capability	To 5,000' (1,524 m) Based on transducer*	To 5,000' (1,524 m) Based on transducer*	To 5,000' (1,524 m) Based on transducer*	To 5,000' (1,524 m) Based on transducer*	To 5,000' (1,524 m) Based on transducer*
Operating Voltage	10-17 vDc	10-17 vDc	10-17 vDc	10-17 vDc	10-17 vDc
GPS Receiver/ Antenna	Internal high-sensitivity 16-channel GPS -- WAAS+ EGNOS+ MSAS	Internal high-sensitvity 16-channel GPS -- WAAS+ EGNOS+ MSAS	Internal high-sensitvity 16-channel GPS -- WAAS+ EGNOS+ MSAS	Internal high-sensitvity 16-channel GPS -- WAAS+ EGNOS+ MSAS	None
Waypoint Management	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing	Waypoint setting with NMEA 2000® network connection to chartplotter
Communication	NMEA 2000®, NMEA 0183, ethernet networking compatible	NMEA 2000®, NMEA 0183, ethernet networking compatible	NMEA 2000®, NMEA 0183,ethernet networking compatible	NMEA 2000®, NMEA 0183, ethernet networking compatible	NMEA 2000®, NMEA 0183, ethernet networking compatible
Memory Card Slots	Two (2) SD/MMC slots for cartography, or recording sonar and navigation data	Two (2) SD/MMC slots for cartography, or recording sonar and navigation data	One (1) SD/MMC slots for cartography, or recording sonar and navigation data	One (1) SD/MMC slots for cartography, or recording sonar and navigation data	None
Case Size	8.85 in./22.5 cm H 12.28 in./31.2 cm W 3.63 in./9.2 cm D Sealed and waterproof, suitable for saltwater use	7.76 in./19.7 cm H 10.59 in./26.9 cm W 3.68 in./9.4 cm D Sealed and waterproof, suitable for saltwater use	6.46 in./16.4 cm H 8.78 in./22.3 cm W 3.46 in./8.8 cm D Sealed and waterproof, suitable for saltwater use	5.72 in./14.5 cm H 7.24 in./18.4 cm W 3.46 in./8.8 cm D Sealed and waterproof, suitable for saltwater use	5.72 in./14.5 cm H 7.24 in./18.4 cm W 3.46 in./8.8 cm D Sealed and waterproof, suitable for saltwater use

HDS® Chartplotter

	HDS-7m	HDS-5m
Display	6.4 in./16.3 cm 16-bit color SolarMAX™ PLUS TFT	5 in./12.7 cm 16-bit color SolarMAX™ PLUS TFT
Resolution	Full VGA 480V x 640H pixels	High contrast 480V x 480H pixels
Backlighting	Pure white LED screen/ keypad adjusts to zero dim	Fluorescent cold cathode adjustable screen/keypad
Operating Voltage	10-17 vDc	10-17 vDc
GPS Receiver/ Antenna	Internal high-sensitivity 16-channel GPS -- WAAS+ EGNOS+ MSAS	Internal high-sensitivity 16-channel GPS -- WAAS+ EGNOS+ MSAS
Waypoint Management	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing	5,000 waypoints, 200 routes, 10 trails up to 12,000 points each; specific icons for navigation and fishing
Mapping	Built-in dimensional Insight USA™ inland and coastal coverage with Fishing Hot Spots® detail	Built-in dimensional Nautic Insight™ coastal coverage with Fishing Hot Spots® detail
Communication	NMEA 2000®, NMEA 0183, ethernet networking compatible	NMEA 2000®, NMEA 0183, ethernet networking compatible
Memory Card Slots	One (1) SD/MMC slots for cartography, or recording sonar and navigation data	One (1) SD/MMC slots for cartography, or recording sonar and navigation data
Case Size	6.46 in./16.4 cm H 8.78 in./22.3 cm W 3.46 in./8.8 cm D Sealed and waterproof, suitable for saltwater use	5.72 in./14.5 cm H 7.24 in./18.4 cm W 3.46 in./8.8 cm D Sealed and waterproof, suitable for saltwater use

* Actual depth capabilities depend on transducer configuration and installation, bottom composition and water conditions. All sonar units typically read deeper in fresh water than salt water.

Specifications

Radar

	LRA-1800	LRA-2400	BR24
Type	Pulse Radome	Pulse Radome	FMCW Radome
Size/Weight	18 in./45 cm/ 9 lbs./4.2 kg	24 in./60 cm/ 22 lbs./10 kg	19 in./48.8 cm/ 16 lbs./7.4 kg
Output Power	2 kW	4 kW	100 mW
Max. Range Scale	24 nm	48 nm	24 nm
Beamwidth (H/V)	5.2°/25°	4°/25°	5.2°/30°
Voltage Required	10.8 – 15.6 vDC	10.8 – 42 vDC	9 – 31.2 vDC
Rotation Speed	27 RPM	27 RPM	24 RPM

** Specifications are subject to change without notice

VHF

VHF/GPS Characteristics	Fixed Mount LVR-880	Fixed Mount LVR-250	Portable Combo LHR-80
Dimensions (HWD) and weight – w/o bracket, mic, or antenna	3.8 x 7.1 x 6.1 in. 96 x 180 x 156 mm 3.7 lbs (1.66 kg)	2.8 x 6.3 x 6.1 in. 72 x 160 x 156 mm 2.8 lbs (1.29 kg)	5.5 x 2.7 x 1.5 in. 139 x 68 x 38 mm 0.70 lbs (0.318 kg) with battery
LCD Display (HW)	Backlighted FSTN Full bitmapped (64 x 128) 1.3 x 2.6 in./33 x 71 mm	Backlighted FSTN 1.0 x 1.8 in./26 x 46 mm 4 line x 12 Character + Icons	Backlighted FSTN Full bitmapped (128 x 128) 1.5 x 1.5 in./38 x 38 mm
Channel Bank (US) and Select Operation	All USA, International, Canada, 10 NOAA Weather, Rotary Control	All USA, International, Canada, 10 NOAA Weather, Rotary Control	All USA, International, Canada, 10 NOAA Weather – UP/DOWN control
Hand Mike Features	PTT button, Hi/Lo, CH16, 3CH, channel up/down, built-in speaker and backlighting	PTT button, Hi/Lo, CH16, 3CH, channel up/down, built-in speaker and backlighting	—
Power Supply/Battery Life	13.8 vDC±15%	13.8 vDC±15%	7.4V – 1400 mAh Li-Polymer >8 hr GPS on >9 hr GPS off Battery level indicator
Audio Output Power	2W - 8Ω @ 10% distortion 94dBA internal speaker 4W - 4Ω @ 10% distortion with external speaker	2W - 8Ω @ 10% distortion 89dBA internal speaker 4W - 4Ω @ 10% distortion with external speaker	250mW internal speaker
Digital Selective Calling - DSC	SC-101 US	SC-101 US	SC-101 US
DSC Call Types	All calls are available - including high resolution position polling and Track-Your-Buddy	All calls are available - including high resolution position polling	All calls are available - including high resolution position polling
Directory/MMSI Entry (US)	20 Individual + Group MMSI + User MMSI	20 Individual + Group MMSI + User MMSI	20 Individual + Group MMSI + User MMSI
Get Buddy	—	—	YES
Call Logs	20 Individual/10 Distress	20 Individual/10 Distress	20 individual/10 Distress
GPS Input + Output	NMEA 0183/NMEA 2000®	NMEA 0183	NMEA 0183 output while on cradle
Hailer with Intercom Talkback/ External Speaker	Powerful 22W Hailer with Auto/manual sounds and listen-back, plus external speaker jack	No Hailer - has external speaker jack	—
Navigation with Waypoints and MOB	200 Waypoints with instant GO control	—	500 Waypoints with instant GO control. One track with 360 Trackpoints/control. Selection to show nearest 5 Waypoints
FM Stereo Radio	USA/EU/AUS bands	—	—
S.A.M.E. Weather Alert	County-by-County warnings	—	—
NOAA Weather Alert	YES	YES	YES
Local/Distance	YES	YES	YES
3 Favorite Channel Select/Scan	YES	YES	YES
12db Sinad Sensitivity	.25uV (distant)/2.5uV (local)	.25uV (distant)/2.5uV (local)	.25uV
Other Standard Features	Flush mount kit and sun cover included. Memory upgrades via NMEA 2000®	Flush mount kit and sun cover included	IT FLOATS. Built-in 12-channel GPS receiver with lat/lon output, Great Circle navigation trackplotter display, local waypoint icons and cursor control. GPS satellite screen

Shared VHF features:

Tx Power: 25W/1W fixed,
5W/1W portable + indicators
Current Drain: 6A at 25W/1.5 at 1W fixed mount
1.75A at 5W/0.8A at 1W portable
Battery monitor: Yes – level indicator with portable
Compass safe distance: 0.45m – fixed mount
Temperature Range: -4 to 122°F (-20 to 50°C)
Waterproof Rating: JIS7
Antenna Connector: SO-239; SMB – portable
Transmitter Protection: Open/Short circuit of antenna
Dual Watch Monitoring: Yes

LOWRANCE®

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About Navico®

Navico is the parent company to five leading marine electronics brands: B&G®, Eagle®, Lowrance®, Northstar™ and Simrad®. Navico is wholly-owned, privately-held, and is the world's largest marine electronics company.

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